

CONTENTS OF VOLUME 38

Numbers 1-3

- 1 A Study on the Relationship Between Steric Effects and Performance of some Triazinyl Reactive Dyes W. ZUWANG, L. PENG, W. SHIRONG & L. LI
- 11 The Synthesis, Properties and Application of Some, 9-Phenylxanthene Dyes T. KONSTANTINOVA, G. KIRKOVA & R. BETCHEVA
- 19 Effects of Histidine on the Fading of Cu-complex Azo Dyes on Cellulose and a Testing Method for Color Fastness to Light and Perspiration Y. OKADA, A. SUGANE, A. WATANABE & Z. MORITA
- 41 Photoinduced Electron Transfer Processes of Ruthenium Tris(bipyridyl) and Methylviologen Doped in TiO₂ System by the Sol-gel Method J. ZHANG, B. HE, Q. ZHANG & D. HUANG
- 49 A new Dithiosquarylium Dye for use as an Electron Transport Material in an Organic Electroluminescent Device having Poly(p-phenylene vinylene) as an Emitter S. H. KIM, S. K. HAN, S. H. PARK & L. S. PARK
- 57 Second-order Optical Nonliniearity of 6-(Perfluoroalkyl)benzothiazolylazo Dyes M. MATSUI, Y. MARUI, M. KUSHIDA, K. FUNABIKI, H. MURAMATSU, K. SHIBATA, K. HIROTA, M. HOSODA & K. TAI
- 65 Effectiveness of Various UV-Absorbers on the Dyeing of Polyester with Disperse Dyes. Part IV E. TSATSARONI, A. H. KEHAYOGLOU, I. C. ELEFTHERIADIS & L. E. KYRIAZIS
- 77 Synthesis of Bioreactive Fluorescent Dye and Enzymatic Labeling at 3-termini of RNAs: An Application for the Characterization of the Thermal Stability of tRNAs and Oligonucleotides using Fluorescence Anisotropy Measurements

 M. KINJO, T. ARAISO & T. KOYAMA
- 97 Hydrolytic Breakdown of a Meso-diphenylamine Substituted Heptamethine Dye IR140 and Isomerism of the Merocyanine Breakdown Product R. GRAY, D. WALTON, J. BICKERTON, P. RICHARDS & J. HEPTINSTALL
- 107 A Novel Dual-Layer Dye Photoreceptor M. LAN, S. REN, Y. WANG, J. QIU & X. XIAO
- 115 Preparation of Cationic Azo Dyes Derived from 2-Amino-6-(2-chloroethoxy)benzothiazole and 2-Amino-4-(2-hydroxyethoxy)benzothiazole T. G. DELIGEORGIEV & D. SIMOV
- Fluorescence and Chemiluminescence Properties of Newly Developed Lophine Analogues K. NAKASHIMA, Y. FUKUZAKI, R. NOMURA, R. SHIMODA, Y. NAKAMURA, N. KURODA, S. AKIYAMA & K. IRGUM
- 137 Kinetic Study of Reaction of Vinylsulfonyl Aniline and Dichlorotriazinyl Group Y. SHENG & Z. ZHENGHUA

- 147 Interaction Between Water-soluble Polymers and Azo Dye Containing Fluorine Atoms. Part 4. Comparison with Azo Dyes Having Different Chain Length of Alkyl Groups K. HAMADA & E. MIYAWAKI
- 157 Theoretical Investigations on the Tautomerism of 1-Phenylazo-4-naphthol and its Isomers L. ANTONOV, S. KAWAUCHI, M. SATOH & J. KOMIYAMA
- 165 Practical PPP Molecular Orbital Calculations of Absorption Maxima of Quinones K. HIRUTA, S. TOKITA & K. NISHIMOTO
- 173 Dispersability of Organic PigmentsC. DAESCU
- Development-accelerator-releasing (DAR) Coupler: Part IV. The effect of the DAR Couplers with Different Hydrazines on the Photographic Characteristics of Color Negative Material X.YUFANG, Z. ZHENGHUA & C. JIRONG

Number 4

- 185 The Effects of Mixed Coupling on the Properties of C.I. Pigment Yellow 12 S. WONG & C. ZHOU
- 195 Dark and Photoinduced Interactions Between Xanthene Dyes and Quinones M. I. GUTIÉRREZ & N. A. GARCÍA
- 211 Synthesis, Characterization and Photographic Properties of Some New Styryl Cyanine Dyes Q. LI, G.-L. LIN, B.-X. PENG & Z.-X. LI
- 219 Photophysical Characteristics of Polymerizable 1,8-Naphthalimide Dyes and their Copolymers with Styrene or Methylmethacrylate
 I. GRABCHEV
- 227 Color Change on Deprotonation of 5-(8,8-dicyanoheptafulven-3-yl)-2-hydroxy-1,3-xylyl-18-crown-5
 K. YUMURA, H. OTANI & J. MIZUGUCHI
- 243 New Developments in the Stabilization of Photochromic Dyes: Counter-ion Effects on the Light Fatigue Resistance of Spiropyrans H. ODA